CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Kodigehalli Sub Division,
BBMP Bangalore.

10th February 2016

Dear Sir,

Sub: Improvements to roads in behind Ayyapa swamy temple Jakkur layout in ward no. 07.
Testing of cubes – Reg.

AE-7

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in behind Ayyapa swamy temple Jakkur layout in ward no. 07.
Name of Agency	Sri. Gnanendra Reddy.
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	CC-Work	151.23 X 151.26 X 150.0	22875	13/01/2016	10/02/2016	28	8.18	475	**21.11**	21.48
2		151.19 X 151.22 X 150.0	22863				8.19	480	**21.33**	
3		151.18 X 151.21 X 150.0	22860				8.21	495	**22.00**	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

AE-1

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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T-2654

To,

Assistant Executive Engineer
Kodigehalli Sub Division,
BBMP Bangalore.

02nd January 2016

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Improvements to roads in behind Ayyapa swamy temple Jakkur layout in ward no. 07.'**

AE-1

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 20mm ↓ Graded

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in behind Ayyapa swamy temple Jakkur layout in ward no. 07.
Name of Agency	Sri. Gnanendra Reddy.
Date of Testing	02/01/2016
Specific Gravity	**2.62**
Water Absorption	**0.30%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970 (Reaffirmed 2011)**	**Remarks**
40	**100**	100	**Satisfies the requirement**
20	**98.2**	95-100	
10	**42.6**	25-55	
4.75	**7.9**	0-10	

AE-7

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in behind Ayyapa swamy temple Jakkur layout in ward no. 07.
Name of Agency	Sri. Gnanendra Reddy.
Date of Testing	02/01/2016
Specific Gravity	**2.67**
Water Absorption	**0.28%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	**100**	100	**Satisfies the requirement**
40	**97.8**	95-100	
20	**53.6**	30-70	
10	**26.5**	10-35	
4.75	**4.2**	0-5	

AE-1

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Khushboo

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in behind Ayyapa swamy temple Jakkur layout in ward no. 07.
Name of Agency	Sri. Gnanendra Reddy.
Date of Testing	02/01/2016
Specific Gravity	**2.56**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**98.6**	90-100	90-100	90-100	95-100		
	2.36	**86.5**	60-95	75-100	85-100	95-100		
	1.18	**74.3**	30-70	55-90	75-100	90-100		
	0.6	**47.8**	15-34	35-59	60-79	80-100		
	0.3	**23.9**	5-20	8-30	12-40	15-50		
	0.15	**8.8**	0-10	0-10	0-10	0-15		

AE-7

Note:

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Khushboo

(KHUSHBOO L)
Quality Manager

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in behind Ayyapa swamy temple Jakkur layout in ward no. 07.
Name of the Agency	Sri. Gnanendra Reddy.
Date of Testing	02/01/2016

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	54	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	486	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

Note:

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Quality Manager

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in behind Ayyapa swamy temple Jakkur layout in ward no. 07.
Name of the Agency	Sri. Gnanendra Reddy.
Date of Testing	02/01/2016

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.2	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	418	415	Satisfactory
6	U T S (N/Sq.mm)	522	485	Satisfactory

Note:

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4. The results are based on the test conducted on samples supplied by the client.

(KHUSHBOO L.)
Quality Manager

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